

SAE CSC2007 SNOWMOBILE DESCRIPTION FORM

Team Name: UW-Madison Badgers

Team Number: 1

Chassis-Year and Model: 2003 Polaris Frontier

Engine

Engine Cycle:4-stroke

Number of Cylinders: 2

Engine Displacement: 750cc

Engine Manufacturer: Weber

Engine Modifications: Frictionless coatings

Compression Ratio: 11.5:1

Turbocharged or Supercharged? No

Engine Management System: Mototran

Fuel Delivery – Carburetors: EFI

Fuel Pump Pressure:45 psi

Fuel Type: E85

Emission Control

Air/Fuel Ratio Chosen: Stoich

Catalyst/Type: Yes; 3-way

Secondary Air Injection? No

Exhaust Gas Recirculation? No

Other:

Noise Control

Muffler Design: Glass pack and T660 Arctic Cat muffler

Noise Treatment: Sound damping material and tunnel stiffeners

Cooling

Describe Strategy: Electronic water pump – mechanical pump taken out of engine

Other Unique Features of Your Snowmobile

Describe Strategy: EVAP system; LED headlights and taillights; lightweight trailing arms and hood